

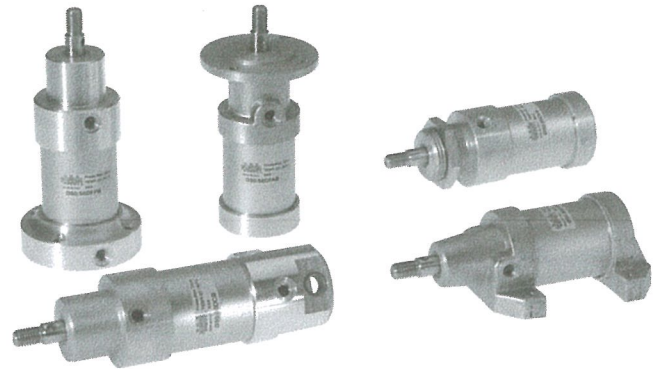
DESCRIPTION

Cylinders series "HB" are manufactured to be fixed directly on the machinery without the use of fixings accessories. In fact the end caps act as a mounting device in the versions: hinge-mounted, screw-mounted, feet-mounted, front flange-mounted, rear flange-mounted. The double acting hinge-mounted versions and rear flange-mounted are available with reduced end caps.

Upon request, cylinders series "HB" comply with ATEX directive, 2GD category.

TECHNICAL DATA

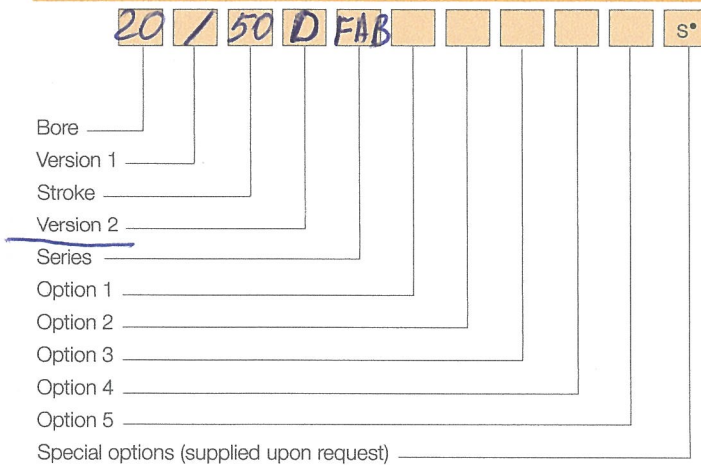
Operating pressure	1,5 ÷ 10 bar
Working temperature	0 ÷ +80 °C (-20 °C with dry air) 0 ÷ +150 °C with seals for high temperatures (-20 °C with dry air)
Fluid	Filtered, unlubricated, continuous lubricated or dry compressed air
Versions	Double acting; Single acting front spring; Single acting rear spring; Through rod
Bore	Ø 20, 27, 35, 40, 50, 58, 70, 85, 100
Port size	Ø 20 ÷ 50 = G 1/8 Ø 58 ÷ 100 = G 1/4
Standard strokes (mm)	10, 15, 20, 30, 40, 50, 60, 70, 80, 90, 100, 150, 200, 250
Max. strokes double acting (mm)	Ø 20 ÷ 58 = 2000; Ø 70 ÷ 100 = 1000
Maximum strokes single acting	Ø 20 27 35 40 50 58 70 85 100 mm 20 25 35 60 70 60 70 90 100
Maximum strokes single acting (version "S") with spacers	Ø 20 27 35 40 50 58 70 85 100 mm 60 75 105 180 210 180 210 270 300
Spring theoretical tractive force	See technical data on page 0.13



MATERIALS

End caps	Aluminium alloy
Cylinder barrel	Ø 20 ÷ 100: Extruded tube, anodized aluminium alloy; Extruded tube, brass (supplied upon request)
Piston rod	C45 chromium-plated steel AISI 303 rolled stainless steel
End cap nut	Steel
Piston rod bearing	Bronze-iron 20%, sintered, self-lubricating
Piston guide shoe	Acetal resin
Piston	Aluminium alloy
Seals	NBR rubber Viton®
Springs	Springs steel

ORDER KEY



• See Chapter 1 on page 1.1.

ORDER EXAMPLES

Basic cylinder Ø 27, 25 mm stroke, single acting front spring, feet-mounted: **27/25 SPB**

Cylinder Ø 20, through rod, 100 mm stroke, double acting, feet-mounted: **20R100 DPB**

Basic cylinder Ø 58, 50 mm stroke, double acting, hinge-mounted, stainless steel piston rod, brass cylinder barrel: **58/50 DVB 14**

Basic cylinder Ø 35, 70 mm stroke, double acting, hinge-mounted, reduced end cap: **35/70 DCBC**

Basic cylinder Ø 40, 50 mm stroke, double acting, hinge-mounted, ATEX: **40/50 DCB/EX**

VERSION 1

/ Basic cylinder R Through rod*

VERSION 2

D Double acting Y Single acting front spring**

S Single acting front spring

SERIES

CB Hinge-mounted FAB Front flange-mounted

VB Screw-mounted FPB Rear flange-mounted

PB Feet-mounted

OPTION 1

C Reduced end cap***

OPTION 2

1 Stainless steel piston rod 3 Stainless steel piston rod and seals for high temperatures

OPTION 3

4 Brass cylinder barrel

OPTION 4

5 Rod wipers (supplied as standard from Ø 20 ÷ 70 with option "C" - reduced end cap)

OPTION 5

/EX Consistent with the ATEX directive II 2GD c T5 T100°C < Ta < 80°C

* Series "FPB" excluded

** Dimensions are different from the versions "D" and "S"

*** Supplied only with series "DCB", "YCB", "DFPB", "YFPB" and with the version "R" of series "DFAB" and "DVB"

SPARE PARTS

SEALS KIT

NBR	Ø/SG/HB	For high temperatures	Ø/SG/HB2
Through rod NBR	Ø/SG/R/HB	Through rod, for high temperatures	Ø/SG/R/HB2